

FACE SEAL WITH SECONDARY SEAL

ABSTRACT OF DISCLOSURE

A face seal assembly is disclosed that includes a seal case having an end wall portion and a seal case neck extending from the end wall portion. A seal ring is rotationally fixed relative to the seal case and has a seal ring bore recessed therein that faces the seal case neck. A seal seat mounts against the sealing surface of the seal ring and is rotatable relative to the seal ring, while a primary spring is mounted between the end wall portion and the seal ring for biasing the seal ring sealing surface against the seal seat. A secondary seal having a PTFE portion and a secondary seal spring located within the PTFE portion is located between the seal ring bore and the seal case neck such that a radial sealing pre-load is created between the seal ring bore and the seal case neck.